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COUNTRY Poland

SUBJECT Electric Power Plants
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power Plants

1. The electric power plant of the Natronog Cellulose and Paper Factory in Kalety (Q 51/T 50) in the district of Lubliniec (Q 51/T 31) is equipped with:

1 steam turbine	1,750 kw	3,500 kva	three-phase current	525 v
1 steam turbine	1,600 kw	2,000 kva	three-phase current	525 v
<u>Total</u>	<u>3,350 kw</u>			

1 steam engine	280 kw	350 kva	three-phase current	330 v
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The distributing network operates at a voltage of 6,000, 5,000, 500, 380/220 and 160 v. The electric power plant generates 22,310,000 kw-h per year.

2. The Electric Power Plant of the Wanda Lech Mine in Nowy Bytom (Neu Beuthen) (Q 51/Y 58) is a reserve plant. Power is supplied by the Chorzow III (Q 51/Y 57) District Power Plant (Elektrownia Okręgowa). The plant has the following equipment:

1 steam turbine	5,000 kw	6,250 kva	three-phase current	5,500 v
1 steam turbine	3,800 kw	4,650 kva	three-phase current	2,100 v
<u>Total</u>	<u>8,800 kw</u>			

The distributing network operates at a voltage of 6,000, 5,000, 2,000, 500, 220, and 120 v. The annual power consumption of the mine is about 16,000,000 to 17,000,000 kw-h.

3. The electric power plant of the Wegierska Gorka Metallurgical Plant (Mines and Metallurgical Plants Corporation) in Wegierska Gorka (Q 50/0 86), Zywiec (Q 50/X 96) district, is equipped with 2 steam turbines with a capacity of 750 kw and 2 water turbines with a capacity of 96 kw. Further details are not available. The distributing network operates at a voltage of 220 v and is fed with three-phase current. The plant generates about 500,000 kw-h per year.

4. The electric power plant of the Ogrodzieniec Cement Factory in Ogrodzieniec (Q 51/Y 97), Olkusz (Q 51/Y 97) district, is equipped with:

2 steam turbines	2,500 kw	3,120 kva	three-phase current	525 v
1 Diesel engine	40 kw	52 kva	three-phase current	525 v

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9. The electric power plant of the Elektrownia Radomskiego Towarzystwa Elektrycznego (Electric Power Company) in Radom (R 52/Q 19) is equipped with:

1 steam turbine	1,000 kw	1,250 kva	three-phase current	3,100 v
2 steam turbines	2,800 kw	3,500 kva	three-phase current	3,100 v
Total	3,800 kw			
1 Diesel engine	289 kw	289 kva	D.C.	two-wire, ungrounded 250 v
1 Diesel engine	235 kw	235 kva	D.C.	two-wire, ungrounded 250 v

One distributing network is fed with a three-phase current and operates at a voltage of 3,000 v. Another distributing network is fed with direct current and operates at a voltage of 2 x 235 v. The plant generates 8,710,000 kw-h per year.

10. The electric power plant of the Ostrowiec Metallurgical Plant in Ostrowiec-Swietokrzyski (R 51/Q 24), Opatow (R 51/Q 33) district, has the following equipment:

1 steam turbine	3,000 kw	5,000 kva	three-phase current	5,250 v
1 steam turbine	1,750 kw	2,190 kva	three-phase current	525 v
Total	4,750 kw			
2 steam engines	320 kw	400 kva	three-phase current	525 v

The distributing network operates at a voltage of 5,000 v. Data on the amount of power generated was not available.

11. The electric power plant of the Opalenica Sugar Factory in Opalenica (P 53/W 94), Nowy Tomysl (O 53/W 74) district, is equipped with:

1 steam turbine	1,552 kw	1,870 kva	three-phase current	400 v
1 steam turbine	1,480 kw	1,850 kva	three-phase current	400 v
Total	3,032 kw			
1 steam engine	144 kw	180 kva	three-phase current	400 v
1 engine of an unidentified type	100 kw	100 kva	D.C.	115 v
1 portable steam engine, with two generators	75 kw	76 kva	D.C.	115 v
		29 kva	D.C.	220 v

One distributing network is fed with a three-phase current and operates at a voltage of 380 v. Another distributing network is fed with direct current and operates at a voltage of 220 and 110 v. The plant generates about 2,000,000 kw-h per year.

12. The electric power plant of the Zduny Sugar Factory in Zduny (P 52/C 68), Krotoszyn (P 52/C 68) district, is equipped with:

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1 steam turbine	1,600 kw	2,000 kva	three-phase current	380/220 v
1 steam engine	70 kw	56 kva	three-phase current	380/220 v
1 steam engine, with two generators	33 kw	25 kva 20 kva	D.C. D.C.	110 v 110 v

One distributing network is fed with a three-phase current and operates at a voltage of 380/220 v. Another distributing network is fed with direct current and operates at a voltage of 110 v. The electric power plant generates 760,000 kw-h per year.

13. The electric power plant of the Witaszyce Sugar Factory in Witaszyce (P 52/X 71), Jarocin (P 52/X 61) district, is equipped with:

1 steam turbine	3,000 kw	3,750 kva	three-phase current	380 v
2 steam turbines	2,120 kw	2,640 kva	three-phase current	380 v
<u>Total</u>	<u>5,120 kw</u>			
1 steam engine	100 kw	130 kva	three-phase current	380 v
1 portable steam engine	30 kw	30 kva	D.C.	115 v

One distributing network is fed with a three-phase current and operates at a voltage of 3,000 and 380/220 v. Another distributing network is fed with direct current and operates at a voltage of 110 v. The electric power plant generates 1,780,000 kw-h per year.

14. The electric power plant of the Sroda Sugar Factory in Sroda (Schroda) (P 53/X 54) is equipped with:

1 steam turbine	1,360 kw	1,700 kva	three-phase current	400 v
1 steam turbine	1,060 kw	1,325 kva	three-phase current	400 v
<u>Total</u>	<u>2,420 kw</u>			
1 steam engine	52 kw	89 kva	D.C.	115 v
2 portable steam engine	80 kw	100 kva	three-phase current	400 v
1 internal combustion engine	35 kw	58 kva	D.C.	115 v

One distributing network is fed with a three-phase current and operates at a voltage of 380 v. Another distributing network is fed with direct current and operates at a voltage of 110 v. The plant generates about 1,000,000 to 1,100,000 kw-h.

15. The electric power plant in Poznan (Posen) (P 53/X 26) consists of two sections. Section I is equipped with 2 steam turbines with a capacity of 20,000 kw, 25,000 kva and 6,300 v three-phase current. Section II is a reserve plant with the following equipment:

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2 steam turbines	8,000 kw	10,000 kva	three-phase current	6,000 v
1 steam turbine	1,000 kw	625 kva	three-phase current	6,000 v
with two generators		800 kva	D.C.	580 v
1 steam turbine	1,000 kw	780 kva	three-phase current	6,000 v
with two generators		800 kva	D.C.	580 v
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	30,000 kw			

One distributing network is fed with a three-phase current and operates at a voltage of 20,000, 15,000, 6,000, and 380/220 v. Another distributing network is fed with direct current and operates at a voltage of 2 x 220 v. The plant generates 32,600,000 kw-h per year.

16. The Railway Electric Power Plant (Eisenbahn-Elektrizitaetswerk) (Elektrownia Kolejowa) in Poznan is equipped with:

1 steam turbine	350 kw	350 kva	D.C.	240 v
1 steam engine	163 kw	163 kva	D.C.	240 v
1 Diesel engine	415 kw	415 kva	D.C.	230 v
1 Diesel engine	285 kw	285 kva	D.C.	240 v
1 Diesel engine	352 kw	352 kva	D.C.	240 v
1 Diesel engine	300 kw	300 kva	D.C.	240 v

The distributing network operates at a voltage of 220 v. The plant generates 3,600,000 kw-h per year.

17. The electric power station of the Stalin Works, the former Cegielski Locomotive Plant, in Poznan has 1 steam turbine with a capacity of 2,200 kw, 2,750 kva and 3,150 v three-phase current. No information was available concerning the voltage of the distributing network and the amount of power generated.

18. The electric power plant of the Miejska Gorka Factory in Miejska Gorka (P 52/C 37), Rawicz (P 52/C 37) district, is equipped with:

1 steam turbine	2,000 kw	2,500 kva	three-phase current	525 v
1 steam turbine	1,200 kw	1,600 kva	three-phase current	525 v
Total	3,200 kw			
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1 steam engine	100 kw	70 kva	D.C.	525 v
with two generators		36 kva	D.C.	110 v
1 portable steam engine	61 kw	41 kva	D.C.	525 v
with three generators		15 kva	D.C.	110 v
		5 kva	D.C.	110 to 150 v

One distributing network is fed with a three-phase current and operates at a voltage of 500 v. Another distributing network is fed with direct current and operates at a voltage of 500 and 110 v. The plant generates 1,800,000 kw-h per year.

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19. The District Electric Power Plant of the town of Kalisz (Zaklad Elektryczny Okregowy Miasta Kalisza) in Kalisz (P 52/N 94) has 2 steam turbines with a capacity of 4,200 kw, 5,250 kva and 6,000 v, three-phase current. The distributing network operates at a voltage of 6,000, 300, and 380/220 v. The plant generates 5,230,000 kw-h per year.
20. The electric power plant of the Gostyn Sugar Factory in Gostyn (P 52/X 30) is equipped with:

1 steam turbine	2,500 kw	3,125 kva	three-phase current	380 v
1 steam turbine	1,400 kw	1,750 kva	three-phase current	380 v
<u>Total</u>	<u>3,900 kw</u>			

1 steam engine	130 kw	162 kva	three-phase current	380 v
1 portable steam engine	30 kw	30 kva	D.C.	110 v

One distributing network is fed with a three-phase current and operates at a voltage of 380 and 120 v. Another distributing network is fed with direct current and operates at a voltage of 110 v. The plant generates about 1,400,000 kw-h per year.

21. The electric power plant of the Piechocin Lime and Cement Plant in Piechocin (P 53/J 05), near Pakosc (P 53/J 05), Inowroclaw (P 53/J 15) district, is equipped with:

1 steam turbine	1,060 kw	1,325 kva	three-phase current	3,150 v
1 steam turbine	265 kw	256 kva	D.C.	500 v
<u>Total</u>	<u>1,325 kw</u>			

1 steam engine	160 kw	160 kva	D.C.	500 v
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One distributing network is fed with a three-phase current and operates at a voltage of 3,000, and 380/220 v. Another distributing network is fed with direct current and operates at a voltage of 500 and 2 x 250 v. The plant operates about 800,000 kw-h per year.

22. The electric power plant of the Melno Sugar Factory in Melno (Q 54/D 62), Grudziadz (Graudenz) (Q 54/D 53) district, is equipped with:

1 steam turbine	900 kw	1,150 kva	three-phase current	400 v
1 steam turbine	850 kw	1,100 kva	three-phase current	400 v
<u>Total</u>	<u>1,750 kw</u>			

1 Diesel engine	5 kw	5 kva	D.C.	110 v
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One distributing network is fed with a three-phase current and operates at a voltage of 15,000, 380/220 v. Another distributing network is fed with direct current and operates at a voltage of 110 v. The plant generates 600,000 to 700,000 kw-h per hour.

23. The electric power plant of the Matwy Sugar Factory in Matwy (P 53/J 15), Inowroclaw district, is equipped with:

2 steam turbines	2,560 kw	3,200 kva	three-phase current	400 v
1 steam engine	200 kw	250 kva	three-phase current	400 v
1 steam engine with two generators	59 kw	19 kva	D.C.	voltage unknown
		40 kva	D.C.	voltage unknown
1 steam engine	45 kw	45 kva	kind of current and voltage unknown	

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One distributing network is fed with a three-phase current and operates at a voltage of 380 v. Another distributing network is fed with direct current and operates at a voltage of 110 v. The plant generates about 1,200,000 kw-h per year.

24. The electric power plant of the Kruszwica Sugar Factory in Kruszwica (P 53/J 14), Inowroclaw district, is equipped with:

1 steam turbine	1,800 kw	2,250 kva	three-phase current	400 v
1 steam turbine	1,700 kw	2,130 kva	three-phase current	400 v
Total	3,500 kw			

1 Diesel engine	40 kw	40 kva	D.C.	115 v
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One distributing network is fed with a three-phase current and operates at a voltage of 380 v. Another distributing network is fed with direct current and operates at a voltage of 110 v. The plant generates 1,300,000 kw-h per year.

25. The hydro-electric power plant (Zakłady Wodno-Elektryczne) in Janowice Wielkie (O 51/G 78), Jelenia Gora (Hirschberg) (O 51/G 68) district, has the following equipment:

1 water turbine	1,320 kw	1,550 kva	three-phase current	5,500 v
1 water turbine	1,050 kw	1,300 kva	three-phase current	5,500 v
Total	2,370 kw			

The distributing network has a voltage of 10,000 and 380/220 v. The plant generates 1,700,000 kw-h per year.

26. The hydro-electric power plant in Gryzyce (Bobkow), Zagan (Sagan) (O 52/B 26) district, has 3 water turbines with a capacity of 2,060 kw, 2,800 kva, and 3,150 v three-phase current. The distributing network operates at a voltage of 60,000, 20,000, 6,000, 3,000, 500 and 220 v. The plant generates about 11,700,000 to 12,000,000 kw-h per year.

27. The electric power plant in Scinawka Srednia (Mittelsteine), Kłodzko (Glatz) (P 51/H 34) district, is equipped with:

1 steam turbine	10,000 kw	12,500 kva	three-phase current	10,500 v
2 steam turbines	7,000 kw	8,750 kva	three-phase current	5,500 v
2 steam turbines	6,000 kw	7,500 kva	three-phase current	5,500 v
1 steam turbine	6,000 kw	7,500 kva	three-phase current	5,500 v
1 steam turbine	5,000 kw	6,500 kva	three-phase current	5,500 v
Total	34,000 kw			

28. The municipal electric power plant in Goleniow (O 54/Q 77), Nowogard (Naugard) (O 54/X 88) district, is equipped with:

2 steam turbines	385 kw	385 kva	D.C.	two wire, ungrounded 220 v
2 Diesel engines	573 kw	573 kva	D.C.	two wire, ungrounded 220 v

The distributing network is fed with direct current and operates at a voltage of two wire, ungrounded 220 v. The plant generates 1,200,000 kw-h per year.

29. The electric power plant in Kolincz, Starograd (O 54/Q 85) district, has a water turbine with a capacity of 360 kw, 420 kva, and 5,200 v three-phase current.

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The distributing network operates at a voltage of 15,000, 8,000 and 380/220 v. The plant generates 1,540,000 kw-h per year.

30. The electric power plant of the Pelplin Sugar Factory in Pelplin (Q 54/D 48), Tczew (Dirschau) (Q 55/D 59) district, is equipped with:

2 steam turbines	2,560 kw	3,200 kva	three-phase current	380 v
1 steam engine	48 kw	48 kva	D.C.	220 v

One distributing network is fed with a three-phase current and operates at a voltage of 380/220 v. Another distributing network is fed with direct current and operates at a voltage of 220 v. The power plant generates about 1,200,000 kw-h per year.

31. The electric power plant in Owidz (Q 54/D 48), Starogard (Q 54/D 48) district, (the former Wojewodztwo Pomorskie), has a water turbine with a capacity of 200 kw, 250 kva, and 8,500 v three-phase current. The distributing network operates at a voltage of 15,000, 8,000 and 380/220 v. The plant generates 1,070,000 kw-h per year.

32. The Municipal Electric Power Plant in Skarszewy (Schoeneck) (Q 55/D 39), Koscierzyzna (Behrent) (P 55/N 66) district (the former district of Pomorze), has the following equipment:

1 water turbine	80 kw	100 kva	three-phase current	5,000 v
1 water turbine	60 kw	75 kva	three-phase current	5,000 v
Total	140 kw			

The distributing network operates at a voltage of 5,000 and 380/220 v. The plant generates 401,000 kw-h per hour.

33. The District Electric Power Plant of Kartuszy county (Elektrownia Okregowa Powiatu Kartuskiego) in Rutki near Zukowo (Q 55/Y 22), Kartuszy (Karthus) (P 55/Y 12) district, is equipped with:

1 Diesel engine	340 kw	550 kva	three-phase current	8,000 v
2 water turbines	540 kw	680 kva	three-phase current	8,000 v

The distributing network operates at a voltage of 15,000, 8,000 and 380/220 v. The plant generates 2,210,000 kw-h per year.

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